

Title (en)

Light sensitive mixture for light sensitive coating materials.

Title (de)

Strahlungsempfindliches Gemisch für lichtempfindliche Beschichtungsmaterialien.

Title (fr)

Mélange photosensible pour matériaux de revêtement photosensibles.

Publication

EP 0297443 B1 19940608 (DE)

Application

EP 88110062 A 19880624

Priority

DE 3721741 A 19870701

Abstract (en)

[origin: JPS6435433A] PURPOSE: To improve the photochemical reactivity by forming a photosensitive layer from a mixture of a polymer binder which is insoluble with water and soluble with a water-based alkali solvent and an org. compd. which has an acid decomposing group and can be changed into strong acid by irradiation. CONSTITUTION: The radiation-sensitive mixture is prepared from a polymer binder which is insoluble with water and insoluble with a water-based alkali solvent phenolic resin such as a novolac polymer and an org. compd. having an acid decomposing group which forms strong acid by irradiation such as a compd. having onium salt group and t-butylcarbonate group. The mixture is applied to form a thin film on a base body, and the thin film is heated to remove the residual solvent, exposed for an image and heated again. By this treatment, the exposed part has complete durability against a water-base alkali soln., while durability in the unexposed part decreases. Thus, the obtd. radiation-sensitive compsn. has high photochemical reactivity in a wide sensitivity range.

IPC 1-7

G03F 7/004; **G03F 7/075**

IPC 8 full level

G03C 1/72 (2006.01); **G03F 7/004** (2006.01); **G03F 7/039** (2006.01); **G03F 7/075** (2006.01)

CPC (source: EP US)

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